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Docket No.: 4752-010

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

Inventor(s): Toshihiko HIROOKA et al.

Confirmation No. 6593

U.S. Patent Application No. 10/562,163

Group Art Unit: N/A

Filed: December 23, 2005

Examiner: N/A

For: OTDM TRANSMISSION METHOD AND APPARATUS

International Preliminary Report

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Attached is the English Translation of International Preliminary Examination Report.

Respectfully submitted,

LOWE HAUPTMAN & BERNER, LLP

Kenneth M. Berner

Registration No. 37,093

1700 Diagonal Road, Suite 310 Alexandria, Virginia 22314 (703) 684-1111 KMB/cac Facsimile: (703) 518-5499 Date: November 20, 2006

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571-273-8300

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION OF TRANSMITTAL
OF COPIES OF TRANSLATION
OF THE INTERNATIONAL PRELIMINARY REPORT
ON PATENTABILITY
(CHAPITER I OR CHAPITER II
OF THE PATENT COOPERATION TREATY)
(PCT Rules 44bis.3(c) and 72.2)

To

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HASHIZUME, Takeshi 13-17, Ginza 3-chome Chuo-ku Tokyo 104-0061 JAPON

NOV 2 0 2006

Date of mailing (day/month/year) 23 March 2006 (23.03.2006)	
Applicant's or agent's file reference P0734PC	IMPORTANT NOTIFICATION
International application No. PCT/JP2004/003957	International filing date (day/month/yeur) 23 March 2004 (23.03.2004)
Applicant JAPAN SCIE	NCE AND TECHNOLOGY AGENCY et al
i. Transmittal of the translation to the applicant.	

The International Bureau transmits herewith a copy of the English translation of the international preliminary repo	on on
palentability (Chapter I).	

The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter II).

2. Transmittal of the copy of the translation to the designated or elected Offices.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following designated or elected Offices requiring such translation:

EP. KR

The following designated or elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

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3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability (Chapter II).

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned within the applicable time limit (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Authorized officer

Masashi Honda

Facsimile No.+41 22 338 70 10

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PATENT COOPERATION TREATY

Translation

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference P0734PC		FOR FURTHER A	ACTION	See Form PCT/IPEA/416			
International application No.		International filing de	ate (day/month/year)	Priority date (day/month/year)			
PCT/JP2004/003957		23.03.200	4	26.06.2003			
			onal classification and	IPC	<u> </u>		
		•			•		
Applicant	Applicant						
JAPAN	SCIENCE	E AND TEC	HNOLOGY A	SENCY			
	 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 						
2 T	his REPORT cons	sists of a total of	<u>3</u>	sheets, including	g this cover sheet.		
3. T	his report is also a	ecompanied by Al	NEXES, comprising:				
	(must to	the combinent and	to the International Bu	man state of 2	sheets, as follows:		
.							
	sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).						
	∫ sbe	eets which superse	de earlier sheets, but	which this Authority con-	siders contain an amendment that goes beyond		
		e disclosure in the ox.	international applicat	ion as filed, as indicated	in item 4 of Box No. I and the Supplemental		
ь		the International F	Suppose and a total of	(indicate type and number	r of electronic corrier(s))		
· ·		ine mendidadi b	areta majo a tota ot	(Hancare type take tromoc	of the doing carried all		
					_ containing a sequence listing and/or tables		
			ative Instructions).	is indicated in the Supple	mental Box Relating to Sequence Listing (see		
4. T	his report contains	indications relatin	g to the following iten	ns:			
\triangleright	Box No. 1	Basis of the	report				
	Box No. II	Priority					
Γ	Box No. III	Non-establis	ishment of opinion with regard to novelty, inventive step and industrial applicability				
F	Box No. IV		•				
	7 .		•	35/2) with regard to novel	ty inventive sten or industrial amplicability:		
K	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability: citations and explanations supporting such statement						
느	Box No. VI	Certain doeu	ments cited				
<u>_</u>	Box No. VII Certain defects in the international application						
L	Box No. VIII Certain observations on the international application						
Date of submission of the demand Date of completion of this report			is report				
				•			
Name and n	nailing address of	the IPEA/JP		Authorized officer			
Facsimile No.				Telephone No.			

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

#CI IIIII O I MA	alshiromion i . o.
PCT/	JP2004/00395

Box No. 1	Basis of the report		
	regard to the language, this report is based on the international under this item.	onal application in the language in wh	nich it was filed, unless otherwise
	This report is based on translations from the original langu		
	which is the language of a translation furnished for the pur international search (Rule 12.3 and 23.1(b))	poses or:	
Ē	publication of the international application (Rule 12.	4)	
[international preliminary examination (Rule 55.2 and	Vor 55.3)	
receive this re	•	s report is based on (replacement she re referred to in this report as "orig	ets which have been furnished to the sinally filed" and are not annexed to
∇	the international application as originally filed/furnished the description:		
			as originally filed/furnished
		received by this Authority on	
•			
	the claims:		
	nos. <u>2-5</u>	•	as originally filed/furnished
r	108.*		with any statement) under Article 19
r	1,6	_	26.04.2005
	108.*	received by this Authority on	
	he drawings:		
S	sheets fig. 1-12	·	as originally filed/furnished
5	sheets*	-	
s	heets"	received by this Authority on	`
ء ليا	a sequence listing and/or any related table(s) - see Supplen	nental Box Relating to Sequence List	ing.
\boxtimes 2	The amendments have resulted in the cancellation of:		
	the description, pages		
	the claims, nos7-17		
	the drawings, sheets/figs		
	the sequence listing (specify):		
_ [any table(s) related to sequence listing (specify):		
	This report has been established as if (some of) the ament hey have been considered to go beyond the disclosure as fi	diments annexed to this report and li- ded, as indicated in the Supplemental	sted below had not been made, sinc Box (Rule 70.2(c)).
	the description, pages		
	the claims, nos.		
	the drawings, sheets/figs		
	the sequence listing (specify):		
	¬		
If itan	4 applies, some or all of those sheets may be marked "sup	erseded."	

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International	application No.
PCT/	JP2004/003957

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability: citations and explanations supporting such statement				
Statement				
Novelty (N)	Claims	1-6	YES	
	Claims		NO.	
Inventive step (IS)	Claims	1-6	YES	
	Claims		NO	
Industrial applicability (IA)	Claims	1-6	YES	
	Claims		NO	
_	citations and expl Statement Novelty (N) Inventive step (IS)	Statement Novelty (N) Claims Claims Inventive step (IS) Claims Claims Claims Claims	Claims Industrial applicability (IA) Claims supporting such statement 1 - 6 Claims 1 - 6 Claims 1 - 6 Claims 1 - 6 Claims 1 - 6	

2. Citations and explanations (Rule 70.7)

(1) Citations

- Document 1: Toshikazu SAKANO et al., "Large-dispersion tolerance optical signal transmission system based on temporal imaging," Optics Letters,
 Vol. 27, No. 8, pages 583 to 585, 15 April 2002
- Document 2: Brian H. KOLNER, "Space-Time Duality and the
 Theory of Temporal Imaging," IEEE Journal of
 Quantum Electronics, Vol. 30, No. 8, pages 1951
 to 1963, August 1994
- Document 3: JP 2002-250828 A (Nippon Telegraph and Telephone Corporation), 06 September 2002, entire text, all drawings
- Document 4: JP 2003-051809 A (Nippon Telegraph and Telephone Corporation), 21 February 2003, entire text, all drawings

(2) Explanations

The inventions that are set forth in claims 1 to 7 are not disclosed in the documents that are cited in the international search report or in any of the abovementioned documents, and would not have been obvious to a person skilled in the art.

Form PCT/IPEA/409 (Box No. V) (January 2004)